



## **CENTRE OF EXCELLENCE – TEXAS INSTRUMENTS**

### **COLLABORATION INDUSTRY DETAILS**

Company name	: Edgate Technologies Pvt Ltd, 8th Edifice, CMH road, Indira nagar, Bangalore.
CEO name	: Ms.TELMA Nazareth
Domain	: Texas Instrument kits (IOT, DSP Processor)
Branch	: Bangalore
Trainer name	: S.Meivel
Designation	: Assistant Professor

### **ABOUT EDGATE TECHNOLOGIES**

EdGate Technologies Pvt Ltd is a technology development company and training provider in embedded system design domain. EdGate provide cost effective and innovative embedded system solutions to business, including both hardware design and software development, with expertise covering many processors (especially ARM microcontrollers) and real time operating systems. EdGate provides high-performance ARM, DSP, FPGA processor boards and I/O modules in support of high performance, parallel processing applications in a variety of fields including Multimedia, Imaging, Networking, Industrial control and Military. Edgate offer rapid, reliable software, firmware and hardware solutions for prototyping, business applications and the development environment. EdGate has an extensive presence all over the country and well-established connectivity within the academic and corporate communities. Edgate provide a whole range of services by leveraging its business expertise by strategic alliances with leading technology providers. EdGate team has accumulated much experience in a variety of embedded engineering disciplines including:

- Embedded tools development
- Prototyping
- Embedded hardware/software design and integration



The experience enables us to fully meet the project requirements of our clients. They cover the complete lifecycle from project definition, initial design and development through deployment.

## **OBJECTIVE**

1. To focus on delivering leading services that will help students differentiate their products.
2. To deliver the Embedded & IOT knowledge in TI contest participation to won prize.
3. To finish R&D skill work with help of Edgate Tools.

TI- INNOVATION LAB has been setup established to enhance students' employability skills in order to bridge the gap between industry and academia. The lab has been established as a unit of "ECE Center of Excellence" with 29 dedicated highly configured computers with LAN powered by high-speed internet in a cozy and professional environment in M.Kumarasamy College of Engineering. TI – INNOVATION LAB is a unique platform to fine-tune software and core skills of our students and to create numerous certified professionals with competitive skills, which are mandatory for industries.

## **RESEARCH ACTIVITIES**

- 1. R&D WORK – FIR FILTER DESIGN**
- 2. R&D WORK – CLIMATE MITIGATION SYSTEM**
- 3. R&D WORK - IMAGE PROCESSING IN IOT**

## **TECHNICAL SPECIFICATIONS**

- Microcontroller Intel® Quark™ SoC X1000, 32-bit
- Operating Voltage 3.3/5V
- Input Voltage (recommended) 12V
- Input Voltage (limit) 7V to 15V
- Digital I/O Pins 20



- PWM Digital I/O Pins 6 (12bit)
- Analog Input Pins 6
- Flash Memory 8M
- SRAM 256 MB
- EEPROM 8 kb
- Clock Speed 400 MHz
- SD Card Up to 32 GB

### SOFTWARE AVAILABLE

1. MATLAB
2. NS2

### COMPONENTS AVAILABLE

Component name	Quantity
ASLK Pro Kit	1
MSP430 G2 Launch Pad	4
CC110L Booster Pack	10
TIVA Launch Pad	2
Sensehub Booster Pack	5
Ez RF 2500 MSP430 Wireless Development tool	2
SimpleLink Wi-Fi CC3100 BoosterPack	2
SimpleLink CC2650 / CC2640 Wireless Launch Pad Kit	2
Simple Link Wi-Fi CC3200 Launch Pad	3
MSP430 5529 Launch Pad	3
MSP 430 F5969 Launch Pad	4
Robotics System Lab Kit	4